BRUHATH BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE,

Work Slip: As per Std Tender Documents

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Estimate Amount:- Rs. 2,00,00,000.00/-
Name of Contractor:- M/s KRIDL
Approved amount:- 16893050.69
Tender premium:- -----

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Anticipated upto 125%			Qty. as per Anticipated above 125%		Amt	Total Amount	Excess amount	Savings amount	Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates					
1	2	3	4	5	6	10	11	12	13	14	15	16	17	18	19	20
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	2443.38	57.02	139321.53	2615.40 2616.21	2615.40	57.02	149130.04 149176.29	0.00	57.02	0.00	149130.04 149176.29	9808.51 9854.76	0.00	
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	36.85	5421.90	199797.02	81.76 81.69	46.06	5421.90	249732.71	35.70 35.63	5421.90	193561.83 193182.30	443294.54 442915.01	243497.53 243117.99	0.00	
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 10cm including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	78.78	7273.72	573052.76	147.54	98.48	7273.72	716315.95	49.06 51.11	7273.72	356848.70 371759.63	1073164.65 1088075.77	500111.89 515023.01	0.00	
6	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Tn	3.94	72326.98	284910.44	7.22 7.38	4.92 4.93	72326.98	355848.74 356972.01	2.30 2.46	72326.98	166352.05 177924.37	522200.79 534496.38	237290.35 249585.94	0.00	
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	33.00	3640.00	120120.00	48.00 15.84	41.25	3640.00	150150.00	6.75 4.59	3640.00	24570.00 16707.60	174720.00 16707.60	54600.00 46737.60	0.00	
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	2220.00	432.48	960105.60	2655.00	2655.00	432.48	1148234.40	0.00	432.48	0.00	1148234.40	188128.80	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule8			Total Qty Executed	Qty. as per Anticipated upto 125%			Qty. as per Anticipated above 125%		Amt	Total Amount	Excess amount	Savings amount	Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates					
1	2	3	4	5	6	10	11	12	13	14	15	16	17	18	19	20
13	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	333.00	84.80	28238.40	419.91 418.15	416.25	84.80	35298.00	3.66 1.90	84.80	310.37 161.12	35608.37 35415.12	7369.97 7220.72	0.00	
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	500.07	1855.00	927629.85	944.43 947.82	625.09	1855.00	1159541.95	319.34 322.73	1855.00	592375.70 598615.15	1751917.65 1758206.10	824287.80 830576.25	0.00	
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	1187.11	2001.28	2375729.49	1613.99 1617.97	1483.88 1483.88	2001.28	2969659.37 2969679.38	130.11 134.08	2001.28 9	260386.54 268334.02	3230045.91 3238011.00	854316.42 862281.51	0.00	
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	5273.50	5.30	27949.55	5989.46 5947.72	5989.46 5947.72	5.30	31744.14 31520.16	0.00	5.30	0.00	31744.14 31520.16	3794.59 3570.61	0.00	
18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	8333.50	12.72	106002.12	8517.14 8349.71	8517.04 8349.71	12.72	108336.78 106208.69	0.00	12.72	0.00	108336.78 106208.69	2334.66 206.57	0.00	
19	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	416.68	6858.20	2857640.49	425.85 417.49	425.85 417.49	6858.20	2920555.03 2863229.92	0.00	6858.20	0.00	2920555.03 2863229.92	62914.54 5589.43	0.00	
20	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	321.84	8049.64	2590696.14	340.68 339.99	340.68 339.99	8049.64	2742343.59 2688499.28	0.00	8049.64	0.00	2742343.59 2688499.28	97803.12 151647.45	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule8			Total Qty executed	Qty as per Anticipated upto 125%			Qty as per Anticipated above 125%		Total Amount	Excess amount	Savings amount	Remarks
			Qty	Rates	Amount		Qty	Rates	Amount	Qty	Rates				
1	2	3	4	5	6	10	11	12	13	14	15	17	18	19	20
22	KSRDB MROD 35: Supply and installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	240.00	357.22	85732.80	300.00	300.00	357.22	107166.00	0.00	357.22	107166.00	21433.20	0.00	
	Grand total				11276925.18				12844056.70			14438461.89	3161535.71	0.00	

Note: Percentage of Workslip over the sanctioned Estimate=Excess amount over the approved amount/Amount Put to tender x 100

Approved Amount =	16893050.69	
Excess Amount =	3161535.71	
Savings Amount =	2827.98	
Percentage of Worslip =	Excess Amount / Approved Amount	x 100

Percentage of Worslip =	18.72	%

Contractor

Assistant Engineer

Assistant Executive Engineer

"Workslip amount of Rs 30,81,129.53 is approved and to be paid with in the tender approved amount of Rs 16893050.69"

28/03/2022

BRUHATH BANGALORE MAHANAGARA PALIKE

Comparitive Statement

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Estimate Amount:- Rs. 2,00,00,000.00/-

Name of Contractor:- M/s KRIDL

Approved amount:- 16,893,050.69

Tender premium:- ------

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	288.00	111.30	32054.40	113.40	113.40	111.30	12621.42	0.00	111.30	0.00	113.40	12621.42	0.00	19432.98	
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	430.90	214.50	92428.74	149.25	149.25	214.50	32014.13	0.00	214.50	0.00	149.25	32014.13	0.00	60414.61	
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	2443.38	57.02	139321.53	2615.40 2616.21	2615.40 2616.21	57.02	149130.11 149176.29	0.00	57.02	0.00	2615.40	149130.11 149176.29	9808.58 9854.76	0.00	
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	36.85	5421.90	199797.02	81.76 81.69	46.06	5421.90	249732.71	35.70 35.63	5421.90	193561.83 193182.30	81.76	443294.54 442915.01	243497.53 243117.99	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule			Total Qty Executed	Qty. as per Actuals upto 125%			Qty as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 10cm including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	78.78	7273.72	573052.76	147.54	98.48	7273.72	716315.95	49.06 51.11	7273.72	356848.70 371798	147.54	1073164.65 1086757	500111.89 150230	0.00	
4	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Tn	3.94	72326.98	284910.44	7.22 7.38	4.92 4.93	72326.98	355848.74 356572.01	2.30 2.96	72326.98	166352.05 177924.84	7.22	522200.79 534496.18	237290.35 244585.74	0.00	
7	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	50.40	4871.76	245536.70	50.23 50.62	50.23	4871.76	244708.50 246608.49	0.00	4871.76	0.00	50.23 50.62	244708.50 246608.49	0.00 1071.79	828.20	
8	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. including cost of all materials, labour, HOM, curing complete as per specifications. including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	25.20	5599.98	141119.50	19.17	19.17	5599.98	107351.62	0.00	5599.98	0.00	19.17	107351.62	0.00	33767.88	

Sl. No.	Description of Work	Unit	Qty as per Schedule8			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	33.00	3640.00	120120.00	48.00 45.84	41.25	3640.00	150150.00	6.75 4.59	3640.00	24570.00 1670.60	48.00	174720.00 16707.60	54600.00 46737.60	0.00	
10	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	m	938.00	1145.86	1074816.68	695.60	695.60	1145.86	797060.22	0.00	1145.86	0.00	695.60	797060.22	0.00	277756.46	
11	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	3105.00	1176.60	3653343.00	881.04 870.96	881.04 870.96	1176.60	1036631.66 1024771.54	0.00	1176.60	0.00	881.04	1036631.66 1024771.54	0.00	2616711.34 2628571.46	
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	2220.00	432.48	960105.60	2655.00	2655.00	432.48	1148234.40	0.00	432.48	0.00	2655.00	1148234.40	188128.80	0.00	
13	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	333.00	84.80	28238.40	419.91 418.15	416.25 414.75	84.80	35298.00	3.66 1.90	84.80	310.37 161.12	419.91	35608.37 35459.12	7369.97 7220.72	0.00	

Sl. No	Description of Work	Unit	Qty as per Schedule8			Total Qty Executed	Qty as per Actuals upto 125%			Qty as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty	Rates	Amount	Qty	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	500.07	1855.00	927629.85	944.43 947.82	625.09	1855.00	1159541.95	319.34 322.73	1855.00	592375.15 598641.15	944.43 947.82	1751917.10 1756206.10	824287.25 830576.25	0.00	
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	1187.11	2001.28	2375729.49	1613.99 1617.97	1483.88 1483.89	2001.28	2969659.37 2969679.38	130.11 134.08	2001.28	260386.54 268331.62	1613.99 1617.97	3230045.91 3236011.00	854316.42 860281.51	0.00	
16	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	8333.50	29.68	247338.28	4371.91	4371.91 4364.97	29.68	129758.29 129552.31	0.00	29.68	0.00	4371.91 4364.97	129758.29 129552.31	0.00	117579.99 117785.97	
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	5273.50	5.30	27949.55	5989.46 5947.2	5989.46 5947.2	5.30	31744.14 31520.16	0.00	5.30	0.00	5989.46 5947.2	31744.14 31520.16	3794.59 3570.61	0.00	
18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	8333.50	12.72	106002.12	8517.14 8349.74	8517.04 8349.74	12.72	108336.75 106208.69	0.00	12.72	0.00	8517.04 8349.74	108336.75 106208.69	2334.63 206.57	0.00	

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
19	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	416.68	6858.20	2857640.49	425.85 417.49	425.85 417.49	6858.20	2920564.47 2863229.92	0.00	6858.20	0.00	425.85 417.49	2920564.47 2863229.92	62923.99 5569.43	0.00	
20	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	321.84	8049.64	2590696.14	340.68 333.99	340.68 333.99	8049.64	2742351.36 2688499.20	0.00	8049.64	0.00	340.68 333.99	2742351.36 2688499.20	151655.22 97603.12	0.00	
21	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	284.75	454.74	129487.22	201.43	201.43	454.74	91598.28	0.00	454.74	0.00	201.43	91598.28	0.00	37888.94	

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty as per Actuals upto 125%			Qty as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
22	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	240.00	357.22	85732.80	300.00	300.00	357.22	107166.00	0.00	357.22	0.00	300.00	107166.00	21433.20	0.00	
	Sub Total				**16893050.69**				**15295818.07**			**1594404.64**		16890222.71	3161552.41	3164380.39	
	Miscellaneous & Rounding off													2827.98	2827.98		
	Total				**16893050.69**									16893050.69	3164380.39	3164380.39	

SANCTIONED ESTIMATE AMOUNT	16893050.69
SANCTIONED TENDER AMOUNT	16893050.69
WORK SLIP AMOUNT	3161535.71
% OF WORK SLIP COMP TO SANCTIONED TENDER COST	18.72%
EIRL AMOUNT	0.00
% OF EIRL COMP TO SANCTIONED TENDER COST	0.00%
SAVINGS	2827.98
Total % Savings to the Tendered Amount	0.017%
EXCESS AMT TO AGREEMENT COST	0.00
% OF EXCESS AMT COMP TO SANCTIONED TENDER COST	0.00%

Contractor

Assistant Engineer

Asst. Executive Engineer

Executive Engineer

BRUHATH BANGALORE MAHANAGARA PALIKE

Comparitive Statement

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Estimate Amount:- Rs. 2,00,00,000.00/-

Name of Contractor:- M/s KRIDL

Approved amount:- 16,893,050.69

Tender premium:- ------

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	288.00	111.30	32054.40	113.40	113.40	111.30	12621.42	0.00	111.30	0.00	113.40	12621.42	0.00	19432.98	
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	430.90	214.50	92428.74	149.25	149.25	214.50	32014.13	0.00	214.50	0.00	149.25	32014.13	0.00	60414.61	
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	2443.38	57.02	139321.53	2615.40 2616.21	2615.40 2616.21	57.02	149130.11 149176.29	0.00	57.02	0.00	2615.40	149130.11 149176.29	9808.58 9854.76	0.00	
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	36.85	5421.90	199797.02	81.76 81.69	46.06	5421.90	249732.71	35.70 35.63	5421.90	193561.83 193182.30	81.76	443294.54 442915.01	243497.53 243117.99	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule8			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. Including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 10cm including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	78.78	7273.72	573052.76	147.54	98.48	7273.72	716315.95	49.06 51.11	7273.72	356848.70 371759.83	147.54	1073164.65 1088075.775	500111.89 15023.01	0.00	
6	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Tn	3.94	72326.98	284910.44	7.22 7.38	4.92 4.93	72326.98	355848.74 356572.01	2.30 2.46	72326.98	166352.05 177924.37	7.22	522200.79 534496.38	237290.35 249585.94	0.00	
7	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	50.40	4871.76	245536.70	50.23	50.23 50.62	4871.76	244708.50 246608.49	0.00	4871.76	0.00	50.23 50.62	244708.50 246608.49	0.00 1071.79	828.20	
8	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications. Including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	25.20	5599.98	141119.50	19.17	19.17	5599.98	107351.62	0.00	5599.98	0.00	19.17	107351.62	0.00	33767.88	

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	33.00	3640.00	120120.00	48.00 45.84	41.25	3640.00	150150.00	6.75 4.59	3640.00	24570.00 1670.60	48.00	174720.00 16707.60	54600.00 A16737.60	0.00	
10	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	m	938.00	1145.86	1074816.68	695.60	695.60	1145.86	797060.22	0.00	1145.86	0.00	695.60	797060.22	0.00	277756.46	
11	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	3105.00	1176.60	3653343.00	881.04 870.96	881.04 870.96	1176.60	1036631.66 1024771.54	0.00	1176.60	0.00	881.04	1036631.66 1024771.54	0.00	2616711.34 2628571.46	
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	2220.00	432.48	960105.60	2655.00	2655.00	432.48	1148234.40	0.00	432.48	0.00	2655.00	1148234.40	188128.80	0.00	
13	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	333.00	84.80	28238.40	419.91 418.15	416.25 416.75	84.80	35298.00	3.66 3.90	84.80	310.37 161.12	419.91	35608.37 35459.12	7369.97 7220.72	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule8			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty.	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	500.07	1855.00	927629.85	944.43 917.82	625.09	1855.00	1159541.95	319.34 322.73	1855.00	592375.15 598644.95	944.43 944.43	1751917.10 1756206.10	824287.25 830576.25	0.00	
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	1187.11	2001.28	2375729.49	1613.99 1617.97	1483.88 1483.69	2001.28	2969659.37 2969679.38	130.11 134.08	2001.28	260386.54 268331.62	1613.99	3230045.91 3236011.00	854316.42 862281.51	0.00	
16	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	8333.50	29.68	247338.28	4371.91 4364.97	4371.91 4364.97	29.68	129758.29 129552.31	0.00	29.68	0.00	4371.91 4364.97	129758.29 129552.31	0.00	117579.99 117785.97	
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	5273.50	5.30	27949.55	5989.46 5947.2	5989.46 5947.2	5.30	31744.14 31520.16	0.00	5.30	0.00	5989.46 5943.2	31744.14 31520.16	3794.59 3570.61	0.00	
18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	8333.50	12.72	106002.12	8517.14 8349.74	8517.04 8349.74	12.72	108336.75 106208.69	0.00	12.72	0.00	8517.04 8349.74	108336.75 106208.69	2334.63 206.57	0.00	

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess Amount	Savings Amount	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
22	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	240.00	357.22	85732.80	300.00	300.00	357.22	107166.00	0.00	357.22	0.00	300.00	107166.00	21433.20	0.00	
	Sub Total				**16893050.69**				**15295818.07**			**1594404.64**		**16890222.71**	**3161552.41**	**3164380.39**	
	Miscellaneous & Rounding off													**2827.98**	**2827.98**		
	Total				**16893050.69**									**16893050.69**	**3164380.39**	**3164380.39**	

SANCTIONED ESTIMATE AMOUNT	16893050.69
SANCTIONED TENDER AMOUNT	16893050.69
WORK SLIP AMOUNT	3161535.71
% OF WORK SLIP COMP TO SANCTIONED TENDER COST	18.72%
EIRL AMOUNT	0.00
% OF EIRL COMP TO SANCTIONED TENDER COST	0.00%
SAVINGS	2827.98
Total % Savings to the Tendered Amount	0.017%
EXCESS AMT TO AGREEMENT COST	0.00
% OF EXCESS AMT COMP TO SANCTIONED TENDER COST	0.00%

Contractor

Assistant Engineer

Asst. Executive Engineer

Executive Engineer

Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Road Infrastructure Yelahanka Division

Name of Work: Modified Estimate for Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	**Removing and refixing stone slabs** of drains and pointing in CM (1:3) (P.No-27,I No-5.33 of PWD BCSR 2018-19)								
	Top slab								
	Jakkuru								
	Government High School Beside Rd	2	63.00	0.90		113.40			
						113.40	**Sqm**	**111.30**	**12,621.42**
	Approved Rate	**111.30**							
2	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (P.No-143 &136 ,I No-19.1&17.4& 17.1 of PWD BCSR 2018-19) 6km lead= 57+2.0x1.28x6 =72.36, including the cost of loading and unloading, disposal using private vehicle and lead off of 6km								
	Desilt								
	Jakkuru								
	LHS from Kempegowda circle	1	145.00	0.90	0.50	65.25			
	RHS from Kempegowda circle	1	154.00	0.60	0.50	46.20			
	Government High School Beside Rd	2	63.00	0.60	0.50	37.80			
						149.25	**Cum**	**214.50**	**32,014.36**
	Approved Rate	**214.50**							
3	KSRRB M300-14. **Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead= (I No-19.14,P No-143 of PWD BCSR 2018-19) , 5km lead= 2.0x1.28x5 =12.8 , including the cost of loading and unloading, disposal using private vehicle and lead off of 6km								
	RCC Drain								
	KV Jairam Rd to Aarav systems	1	196.20	1.00	0.90	176.58			
	Aarav systems to Kempegowda circle	1	289.00	1.30	1.00	374.05			
	Butterfly Garments Road	1	41.00	1.00	0.90	36.90			
	Kempegowda Circle	1	16.60	1.00	0.90	14.94			
	Culvert	4	9.55	2.00	1.00	76.40			
	Asphalt Road								
	Balaji layout								
	Road 01	1	19.00	5.90	0.30	33.33			
	Road 02	1	59.00	6.15	0.30	108.86			
	Road 03	1	79.20	7.45	0.30	176.99			
	Road 04	1	79.00	6.45	0.30	152.75			
	Road 05	1	21.70	7.65	0.30	49.80			
	Road 06	1	5.00	4.85	0.30	7.28			
	Jakkur								

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	KV Jairam Main Road to Butterfly Garments	1	282.30	3.00	0.30	235.98			
		1	55.20	22.50	0.30	372.12	31.6		
	From Butterfly Garments to Kempegowda Circle	1	268.80	2.65	0.30	214.76	211.30		
		1	48.80	16.50	0.30	246.83	241.58		
	From Kempegowda Circle to Organic Valley Shop	1	86.10	10.80	0.30	278.86	96		
	Government High School Beside Rd	1	84.60	2.50	0.30	58.98	61.46		
						2615.40	Cum	57.02	149130.04
	Approved Rate	57.02				2614.21			149176.14
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	RCC Drain								
	KV Jairam Rd to Aarav systems	1	196.20	1.00	0.10	19.62			
	Aarav systems to Kempegowda circle	1	289.00	1.30	0.10	38.11	37.57		
	Butterfly Garments Road	1	41.00	1.00	0.10	4.10			
	Kempegowda Circle	1	16.60	1.00	0.10	1.66			
	For Concrete Band								
	KV Jairam Rd to Aarav systems	1	196.20	0.15	0.10	2.94			
	Aarav systems to Kempegowda circle	1	289.00	0.15	0.10	4.34			
	Culvert	4	9.55	2.00	0.15	10.99	11.46		
					81.69	**81.76**	**Cum**		249732.71
				Upto 125%		**46.06**	**Cum**	**5421.90**	**249746.27**
				Above 125%		**35.70**	**Cum**	**5421.90**	**193541.14**
	Approved Rate	**5421.90**				35.63			193182.30
5	Providing and laying plain/reinforced **cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs**. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 10cm (I No-37.59.1,P No-271 of PWD BCSR 2018-19)								
	RCC Drain Raft								
	KV Jairam Rd to Aarav systems	1	196.20	0.90	0.10	17.66			
	Aarav systems to Kempegowda circle	1	289.00	1.10	0.10	32.92	31.79		
	Butterfly Garments Road	1	41.00	0.90	0.10	3.69			
	Kempegowda Circle	1	16.60	0.90	0.10	1.49			
	RCC Drain Wall								
	KV Jairam Rd to Aarav systems	2	196.20	0.10	0.60	23.08	23.54		
	Aarav systems to Kempegowda circle	2	289.00	0.10	0.65	36.54	37.57		
	Butterfly Garments Road	2	41.00	0.10	0.60	4.92			
	Kempegowda Circle	2	16.60	0.10	0.60	1.99			
						122.29	122.0		

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	vert Raft								
		4	9.55	1.80	0.20	12.18	13.75		
	Culvert Wall								
		8	9.55	0.23	0.75	13.07	13.18		
					26.93	25.24			
					149.54	147.54	Cum		
				Upto 125%		98.48	Cum	7273.72	716315.95
				Above 125%		49.06	Cum	7273.72	356819.83
	Approved Rate	7273.72				51.11			371759.83
6	KSRB 4.9.2 : **Providing T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio (I No-28.8.2,P No-229)								
	For Drain and Culvert	147.54	50.00			7.22	7.38		
						7.22	Tn		356572.01
				Upto 125%		4.92	Tn	72326.98	356138.05
				Above 125%		2.30	Tn	72326.98	166301.43
	Approved Rate	72326.98				2.46			177924.37
7	**Providing and constructing granite / trap / basalt size stone** masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13 cement mortar 1:6 (Page No 25., I.No.34.8.2).								
	SSM Drain								
	LHS from Kempegowda circle								
	1st Step	2	140.60	0.50	0.20	27.73	28.12		
	2nd Step	2	140.60	0.40	0.20	22.50			
						50.23	Cum	4871.76	244705.34
	Approved Rate	4871.76				50.62			246608.49
8	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-255, I No-34.11)								
	SSM Drain Coping								
	LHS from Kempegowda circle	2	145.00	0.40	0.10	11.60			
	For Concrete Band								
	KV Jairam Rd to Aarav systems	1	196.20	0.10	0.25	4.91			
	Aarav systems to Kempegowda circle	1	106.60	0.10	0.25	2.67			
						19.17	Cum	5599.98	107351.62
	Approved Rate	5599.98							
9	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Culvert Raft								
		4	9.55	1.20		48.00	45.84		
						48.00	Sqm		
				Upto 125%		41.25	Sqm	3640.00	150150.00
				Above 125%		6.75	Sqm	3640.00	24570.76
						4.59			16707.60

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Approved Rate	**3640.00**							
10	Providing and laying **100mm thick pre-cast cover slabs** over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No-272 ,I No-37.66 of PWD BCSR 2018-19)								
	RCC Drain Raft								
	KV Jairam Rd to Aarav systems	1	196.20			196.20			
	LHS from Kempegowda circle	1	137.80			137.80			
	Butterfly Garments Road	1	41.00			41.00			
	Kempegowda Circle	1	16.60			16.60			
	For Drain Desilt								
	RHS from Kempegowda circle	1	154.00			154.00			
	Shoba Appartment Road	1	65.00			65.00			
	Missing/Damaged Slabs	1	85.00			85.00			
						695.60	**m**	**1145.86**	**797060.22**
	Approved Rate	**1145.86**							
11	KSRB 14.6 : Providing and laying **heavy duty cobble stones interlock pavers**, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (P.No-103,I No-14.7 of PWD BCSR 2018-19), 75mm thick								
	Footpath								
	Jakkuru								
	From KV jayaraman Main Road	1	144.20	1.20		174.58	173.04		
	From Butterfly Fashion Garments Road	2	189.10	1.60		613.66	605.12		
	Near Kempegowda Circle Bus Stop	1	29.00	3.20		92.80			
						881.04	**Sqm**	**1176.60**	**1036633.46**
	Approved Rate	**1176.60**				870.96			1024771.54
12	Providing and fixing pre cast solid **cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (I No-5.30,P No-27 of PWD BCSR 2018-19)								
	For Kerb								
	Jakkur road	1	457.70			457.70			
	Government High School Beside Rd	2	65.00			130.00			
	Govt School Road	1	291.00			291.00			
	KV Jayaram Road to Butterfly Garments	1	316.00			316.00			
						1194.70			
	Length/Length of Kerb= No of Kerb					**2655.00**	**Nos**	**432.48**	**1148234.40**
	Approved Rate	**432.48**							
13	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.(I No-24.1,P No-180)								

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Kerb								
	Jakkur road	1	457.70		0.35	160.20			
	Government High School Beside Rd	2	65.00		0.35	47.26	45.5		
	Govt School Road	1	291.00		0.35	101.85			
	KV Jayaram Road to Butterfly Garments	1	316.00		0.35	110.60			
			upto 95%=		416.25	419.91	Sqm	84.80	35,608.21
	Approved Rate	84.80	Above		1.90	418.15		—	35459.12
14	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.(I No-20.6,P No-153 of PWD BCSR 2018-19)								
	For Kerb								
	Jakkur road	1	457.70	0.20	0.10	9.15			
	Government High School Beside Rd	2	65.00	0.20	0.10	2.60			
	Govt School Road	1	291.00	0.20	0.10	5.82			
	KV Jayaram Road to Butterfly Garments	1	316.00	0.20	0.10	6.32			
	Asphalt Road								
	Balaji layout								
	Road 01	1	19.00	5.90	0.15	16.96	16.82		
	Road 02	1	59.00	6.15	0.15	54.21	54.43		
	Road 03	1	79.20	7.45	0.15	88.51			
	Road 04	1	79.00	6.45	0.15	76.29	76.43		
	Road 05	1	21.70	7.65	0.15	24.90			
	Road 06	1	5.00	4.85	0.15	3.64			
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments Ch: 0.00m to 262.20m	1	262.20	3.00	0.15	117.99			
	Ch: 262.20m to 317.40m	1	55.20	22.50	0.15	186.06	186.30		
	From Butterfly Garments to Kempegowda Circle Ch: 0.00m to 268.80m	1	268.80	2.65	0.15	106.87	106.85		
	Ch: 268.80m to 317.60m	1	48.80	10.50	0.15	76.87	76.86		
	From Kempegowda Circle to Organic Valley Shop	1	86.10	10.80	0.15	139.43	139.48		
	Government High School Beside Rd	1	84.60	2.50	0.15	28.82	31.73		
					947.82	944.43	Cum		1159541.95
				Upto 125%		625.09	Cum	1855.00	1159537.31
				Above 125%		319.34	Cum	1855.00	592375.15
	Approved Rate	1855.00				322.73			598664.15
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18 of PWD BCSR 2018-19)								

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	ram Rd to Aarav systems	1	196.20	2.00	0.15	58.86			
	arav systems to Kempegowda circle	1	289.00	2.00	0.15	86.70			
	For Footpath								
	From KV jayaraman Main Road	1	144.20	1.20	0.15	26.19	25.94		
	From Butterfly Fashion Garments Road	2	189.10	1.60	0.15	92.05	90.77		
	Near Kempegowda Circle Bus Stop	1	29.00	3.20	0.15	13.92			
	Asphalt Road								
	Balaji layout								
	Road 01								
	Road 02	1	19.00	5.90	0.20	22.61	22.41		
	Road 03	1	59.00	6.15	0.20	72.28	72.57		
	Road 04	1	79.20	7.45	0.20	118.01			
	Road 05	1	79.00	6.45	0.20	101.72	101.91		
	Road 06	1	21.70	7.65	0.20	33.20			
	Jakkur	1	5.00	4.85	0.20	4.85			
	From KV jayaraman Main Road to Butterfly Garments Ch: 0.00m to 262.20m	1	262.20	3.00	0.225	175.22	176.99		
	Ch: 262.20m to 317.40m	1	55.20	22.50	0.225	278.80	279.45		
	From Butterfly Garments to Kempegowda Circle Ch: 0.00m to 268.80m	1	268.80	2.65	0.225	158.67	160.27		
	Ch: 268.80m to 317.60m	1	48.80	10.50	0.225	114.60	115.29		
	From Kempegowda Circle to Organic Valley Shop	1	86.10	10.80	0.225	208.92	209.22		
	Government High School Beside Rd	1	84.60	2.50	0.225	47.40	47.59		
						1613.99	**Cum**	1617.97	2969679.38
				Upto 125%		**1483.88**	**Cum**	**2001.28**	**2969661.87**
				Above 125%		**130.11**	**Cum**	**2001.28**	**260383.68**
	Approved Rate	**2001.28**				134.08			268331.62
16	KSRRB M 500-6, Providing and applying **primer coat** with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM Including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PWD BCSR 2018-19) issue rate Dated 01-01-2019								
	Asphalt Road								
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments Ch: 0.00m to 262.20m	1	262.20	2.50		655.50			
	Ch: 262.20m to 317.40m	1	55.20	19.50		1076.30	.40		
	From Butterfly Garments to Kempegowda Circle Ch: 0.00m to 268.80m	1	268.80	2.65		715.86	712.32		
	Ch: 268.80m to 317.60m	1	48.80	16.50		822.78	805.20		
	From Kempegowda Circle to Organic Valley Shop	1	86.10	10.50		904.05			
	Government High School Beside Rd	1	84.60	2.50		197.42	211.50		
						4371.91	**Sqm**	**29.68**	**129758.39**
						436497			129552

	escription of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	oved Rate	29.68							
	KSRRB 500-2. **Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. (P.No-158,I No-21.2 of PWD BCSR 2018-19)								
	Asphalt Road								
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments	1	317.40	9.50		3106.50	301530		
	From Butterfly Garments to Kempegowda Circle	1	317.60	7.50		2371.43	2382		
	Government High School Beside Rd	1	84.60	6.50		511.53	549.90		
						5989.46	**Sqm**	**5.30**	**31,744.16**
	Approved Rate	**5.30**				5947.2			31520.16
18	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-158,I No-21.7 of PWD BCSR 2018-19) issue rate Dated 01-01-2019								
	Asphalt Road								
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments Ch: 0.00m to 213.20m	1	213.20	8.90		1954.78	1897.18		
	Ch: 213.20m to 292.20m	1	79.00	14.00		1106.00	—		
	Ch: 292.20m to 317.40m	1	25.20	27.00		680.40	—		
	From Butterfly Garments to Kempegowda Circle Ch: 0.00m to 268.80m	1	268.80	7.90		2238.40	2170.52		
	Ch: 268.80m to 317.60m	1	48.80	19.00		927.20	—		
	From Kempegowda Circle to Organic Valley Shop	1	86.10	10.80		929.54	929.88		
	Government High School Beside Rd	1	84.60	8.10		680.81	685.26		
						8517.14	**Sqm**	**12.72**	**108337.97**
	Approved Rate	**12.72**				8349.71			106208.69
19	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6 of PWD BCSR 2018-19) issue rate Dated 01-01-2019								
	Asphalt Road								
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments Ch: 0.00m to 213.20m	1	213.20	8.90	0.05	97.74	94.87		
	Ch: 213.20m to 292.20m	1	79.00	14.00	0.05	55.30	—		
	Ch: 292.20m to 317.40m	1	25.20	27.00	0.05	34.02	—		

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Butterfly Garments to Kempegowda Circle Ch: 0.00m to 268.80m	1	268.80	7.90	0.05	111.92	106.16		
	Ch: 268.80m to 317.60m	1	48.80	19.00	0.05	46.36	—		
	From Kempegowda Circle to Organic Valley Shop	1	86.10	10.80	0.05	46.48	46.49		
	Government High School Beside Rd	1	84.60	8.10	0.05	34.04	34.26		
	Approved Rate	**6858.20**				**425.85**	**Sqm**	**6858.20**	**2920586.96**
20	Providing and laying **bituminous concrete** 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PWD BCSR 2018-19) issue rate Dated 01-01-2019					417.49		—	2863229.92
	Asphalt Road								
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments Ch: 0.00m to 213.20m	1	213.20	8.90	0.04	78.19	75.90		
	Ch: 213.20m to 292.20m	1	79.00	14.00	0.04	44.24	—		
	Ch: 292.20m to 317.40m	1	25.20	27.00	0.04	27.22	—		
	From Butterfly Garments to Kempegowda Circle Ch: 0.00m to 268.80m	1	268.80	7.90	0.04	89.53	84.94		
	Ch: 268.80m to 317.60m	1	48.80	19.00	0.04	37.09	—		
	From Kempegowda Circle to Organic Valley Shop	1	86.10	10.80	0.04	37.18	37.20		
	Government High School Beside Rd	1	84.60	8.10	0.04	27.23	27.41		
						340.68	**Sqm**	**8049.64**	**2742315.45**
	Approved Rate	**8049.64**				333.99			2688499.26
21	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic** Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15 of PWD BCSR 2018-19)								
	Asphalt Road								
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments Ch: 0.00m to 213.20m	2.5	213.20	0.10		53.30	—		
	Ch: 213.20m to 292.20m	2.5	79.00	0.10		19.75	—		
	Ch: 292.20m to 317.40m	2.5	25.20	0.10		6.30	—		

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Butterfly Garments to Kempegowda Circle Ch: 0.00m to 268.80m	2.5	268.80	0.10		67.20			
	Ch: 268.80m to 317.60m	2.5	48.80	0.10		12.20			
	From Kempegowda Circle to Organic Valley Shop	2.5	86.10	0.10		21.53			
	Government High School Beside Rd	2.5	84.60	0.10		21.15			
						201.43	**Sqm**	**454.74**	**91,598.44**
	Approved Rate	**454.74**							
22	KSRRB M800-35. Supply and Installtion of Moulded **Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187, I No-24.41 of PWD BCSR 2018-19)								
	Jakkur	3	100			300.00			
						300.00	**Nos**	**357.22**	**107166.00**
	Approved Rate	**357.22**							
								Total Construction Cost	**16890222.71**

16799633.71

Assistant Engineer
RI,Yelahanka Division
BBMP Bangalore

Asst. Executive Engineer,
RI,Yelahanka Division
BBMP Bangalore

Executive Engineer,
RI,Yelahanka Division
BBMP Bangalore